

**GB9-2000-0040US1****REMARKS**

This Amendment is submitted in response to the Office Action dated March 29, 2004. Claims 1-34 are pending in the application. Claims 1, 4,6,12,15,17,23,26 and 28 have been amended. Claims 3, 14 and 25 have been cancelled. Claims 2,5,7-11,13,16, 18-22, 24,27 and 29-34 remain in the application unchanged.

The Examiner objected to the disclosure as containing embedded hyperlinks and or other forms of browser-executable code. The Examiner requested removal of the hyperlinks or other forms of browser-executable code. Applicant has amended the Specification to remove the matter. Applicant believes the amendment to the Specification overcomes the objection and asks that the objection be withdrawn.

The Examiner rejected Claims 1-7, 10-18, 21-29 and 32-34 under 35 U.S.C. § 102(e), as being anticipated by Keyes (U.S. 6,453,460). The Examiner concluded that Keyes disclosed every element of Applicant's invention. Applicant has amended Claims 1, 5, 6 and 8 to overcome the rejections. Applicant believes the amendments overcomes the rejections and asks that the rejections be withdrawn.

Applicant has amended the claims to recite performing a first bytecode manipulation to effect a callback to said environment application for a system exit call (See Specification at Page 7, Lines 21-24) and performing a second bytecode manipulation to effect a callback to said environment for creation of a frame or window (See Specification at Page 8, Lines 5-8). Applicant's invention, unlike the prior art and the disclosure in Keyes, is directed to changing the actual instructions (i.e., the

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operation) of the class itself. Applicant's invention uses a first bytecode manipulation to change the `System.exit()` calls into a hook back into a Long Running Environment (LRE) which indicates when an application wishes to terminate. (See Specification, Page 24, Lines 1-24). A second bytecode manipulation is carried out to indicate the creation of a frame or window. (See Specification, Page 25, Lines 18-24). Applicant's invention is different from that in Keyes because of the ability to change instructions using bytecode manipulation during the loading process. Applicant believes the amendment to the independent claims overcome the rejection under 102(e) and asks that the rejection be withdrawn.

The Examiner rejected Claims 8-9, 19-20 and 30-31 under 35 U.S.C. § 103(a), as being unpatentable over Keyes (U.S. Patent 6,453,460). The Examiner concluded that Keyes disclosed all the elements of the claimed invention, except the limitation of redirecting system output for a virtual machine to the environment application. The Examiner reasoned that Keyes' teaching that an environment has a single processing space and not designed for microprocessing with a process switch disclosed the missing element.

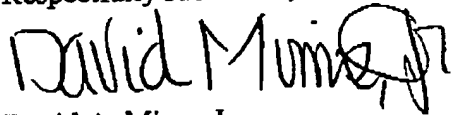
Applicant respectfully traverse the rejection of Claims 8-9, 19-20 and 30-31, as amended, as unpatentable over Keyes. Keyes discloses a factory object that provides independent operation of multiple applications in a JAVA virtual machine environment. (See Keyes, Col. 2, Lines 32-60). Keyes discloses a loading process where memory allocation and storage takes place in a manner different from the claimed invention. (See Keyes, Col. 5, Lines 29-56). Keyes, unlike the claimed

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invention does not utilize bytecode manipulation for changing predetermined instructions as in the claimed invention. Applicant believes the claims, as amended, define an invention over Keyes and asks that the rejection be withdrawn.

In view of the above, it is respectfully submitted that this application is in condition for allowance. Accordingly, it is respectfully requested that this application be allowed and a timely notice of allowance issued. If the Examiner believes that a telephone conference with Applicant's attorneys would be advantageous to the disposition of this case, the Examiner is requested to telephone the undersigned.

Respectfully submitted,



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